

ABSTRACT OF THE DISCLOSURE

A silo bin drilling system and method of unclogging clogged bulk material such as grain, feed and other soft bulk items in a silo bin and other large storage facilities. The silo bin drill system includes a portable hydraulic drill with drill motor, a hydraulic tank, hydraulic lines and pressure and direction controls. The hydraulic drill with drill motor is mounted above an upper bin access hole in a top portion of a silo bin. The silo bin includes a cone-shaped metal hopper with hopper access door in the bottom of the bin. Using the access door, a lower bin cavity is manually formed in the bottom of bin by digging out the clogged material therein. The drill system also includes a plurality of drill pipe sections connected together by threads and forming a drill pipe string. The top of the drill pipe string is attached to the hydraulic drill pipe string motor. A bottom of the drill string is attached to a drill bit with foldable blades disposed next to the sides of the drill bit. The drill bit is used for drilling a cavity access hole downwardly through the compressed clogged bulk material and into the lower bin cavity. The hydraulic drill pipe string motor then moves the drill bit with attached unfolded blades upwardly through the clogged bulk material drilling a large diameter raise hole until the clogged material collapses around the sides of the raise bore.